

# INSURV INSPECTION GUIDE FOR MK 38 MOD 1, 25 MM MACHINE GUN SYSTEM

Updated: 14-Apr-04

**Reference: NAVSEA SW360-AF-MMO-010, MK 38 MOD 1 Interactive Electronic Technical manual (IETM)  
MIP 7111/R22, Machine Gun System, MK 38 MOD 1  
NAVSEA S9AA0-AB-GOS-010 , General Specifications for Overhaul of Surface Ships, Section 480  
NAVSEA MSG, DTG 091500Z AUG 01, Anti-Terrorism/Force Protection Equipment Installation**

EQUIPMENT		REMARKS / DISCREPANCIES
GUN & GUN MOUNT VISUAL INSPECTION		Ref: 7111/R22, Q-1R, Q-3R, R-3
(1) Is the gun mount in good condition, properly lubricated and free of corrosion, cracked welds, etc?	YES / NO	
(2) Is all hardware and fasteners installed and tight/lock wired?	YES / NO	
(3) Can the mount be trained, elevated and depressed smoothly?	YES / NO	
(4) Are firing cut-outs properly set to prevent weapon from training into the ship?	YES / NO	
(5) Are electrical cables in good condition and properly weatherproofed IAW MRC?	YES / NO	
(6) Are all foundation bolts installed and tight? (250 FT LBS)	YES / NO	
(7) Are all indicator covers, switches, and rubber switch boots in good condition?	YES / NO	
(8) Do the train and elevation stow locks operate freely?	YES / NO	
(9) Are the active hand grip and controls in good condition?	YES / NO	
(10) Is the ammunition feed chute in good condition?	YES / NO	
(11) Does the ammunition advancer rotate freely?	YES / NO	
(12) Is the optical sight in good condition, securely installed, and operable?	YES / NO	
(13) Can the optical sight be adjusted easily?	YES / NO	
(14) Is the spare Ammunition feed chute in good condition?	YES / NO	
(15) Are both link exit chutes in good condition?	YES / NO	
(16) Are both special tools (Hand Crank & Special Wrenche) available at the mount?	YES / NO	
(17) Are the dummy rounds (5 per mount) in good condition?	YES / NO	
(18) Is the gun cover in good condition?	YES / NO	

EQUIPMENT		REMARKS / DISCREPANCIES
(19) Are boresight, boresite adapter, cleaning rods and brushes onboard?	YES / NO	
(20) Is the ammunition container in good condition?	YES / NO	
(21) Is there indication of overheating of the Feed Select Solenoid?	YES / NO	
(22) Is the battery in good condition and within service life?	YES / NO	
(23) Are both battery vent hoses installed and vent holes free of obstruction?	YES / NO	
(24) Is the battery compartment clean/free of moisture & corrosion?	YES / NO	
(25) Is the battery compartment door and gasket in good condition/effective?	YES / NO	
(26) Is the electronics enclosure in good condition, free of moisture & corrosion?	YES / NO	
(27) Are all connections tight and all wires/cables in good condition?	YES / NO	
(28) Is the electronics enclosure door and gasket in good condition/effective?	YES / NO	
(29) Are shoulder supports and pads in good condition and operable?	YES / NO	
(30) Is CB2 turned on? (Should be on at all times)	YES / NO	
(31) Is 115 VAC present to operate the battery charger?	YES / NO	
(32) Is gun system 115VAC power protected with a 15 amp circuit breaker?	YES / NO	
(33) Are all warning and nomenclature tags installed on the mount and PCU?	YES / NO	
<b>OPERATIONAL TEST</b>		<b>Ref: 7111/R22, R-2</b>
(1) Does the gun pass Pre-Fire Checks IAW the MRC?	YES / NO	Remove Safety to allow firing pin test
(2) Does the firing pin operate correctly?	YES / NO	(Use tape on dummy round)
<b>GUN INSPECTION (INTERIOR) (NOT REQUIRED IF GUN INSTALLED LESS THAN 30 DAYS)</b>		<b>Ref: 7111/R22, Q-3R</b>
(1) FEEDER ASSEMBLY:		
- Does the feeder handle raise and lower without binding?	YES / NO	
- Is the feeder in good condition, free of cracks, dirt, and corrosion?	YES / NO	
- does the feeder lock in 'SEAR'?	YES / NO	
- Can the feeder gear assembly be rotated easily by rotating the worm shaft assembly?	YES / NO	
- Is there evidence of proper lubrication?	YES / NO	

EQUIPMENT		REMARKS / DISCREPANCIES
- Is the round positioner in good condition?	YES / NO	
(2) BARREL:		
- Is the barrel exterior in good condition and free of corrosion?	YES / NO	
- Is the barrel bore in good condition and free of dirt, pitting, or corrosion?	YES / NO	
- Is there evidence of proper lubrication?	YES / NO	
- Is the muzzle brake tight and slots free of carbon?	YES / NO	
(3) BREECH:		
- Is breech free of cracks, excessive wear?	YES / NO	
- Is total breech use less than 15, 000 rounds? (review log book)	YES / NO	If "NO", Verify NDT test @15K (and every 2500 rounds there after ) conducted and results in log book.
- Is total breech use less than 25, 000 rounds? (review log book)	YES / NO	If "NO", Breech must be replaced.
- Does Breech S/N match mount and Log book?	YES / NO	
(4) RECEIVER ASSEMBLY:		
- Is the receiver in good condition, free of cracks, dirt, and corrosion?	YES / NO	
- Is the gun connector plug in good condition and free of corrosion?	YES / NO	
- Is the recoil mechanism in good condition and free of oil leaks?	YES / NO	
- Is there at least 1 inch of reservoir piston rod protruding or one hole visible?	YES / NO	
- Is the barrel support free of cracks?	YES / NO	
- Do all components operate freely?	YES / NO	
- Is the barrel support bearing free of corrosion and properly lubricated?	YES / NO	
- Does the handle pin move freely in the receiver housing?	YES / NO	
- Is there evidence of proper lubrication?	YES / NO	
(5) BOLT & CARRIER ASSEMBLY:		
- Is the bolt & carrier in good condition, free of cracks, excessive wear, and corrosion?	YES / NO	
- Is the firing pin in good condition and free of corrosion?	YES / NO	
- Is there evidence of proper lubrication?	YES / NO	

EQUIPMENT		REMARKS / DISCREPANCIES
MISCELLANEOUS		GOS 010, OP 4, NAVSEA MSG, DTG 091500Z AUG 01
(1) Is the mount cease fire alarm in good condition?	YES / NO	
(2) Does the mount cease fire alarm operate properly?	YES / NO	
(3) Is the communications jack box (IVCS/SP Phone) located in the mount vicinity?	YES / NO	
(4) Is the communications jack box (IVCS/SP Phone) in good condition?	YES / NO	
(5) Does the communications circuit operate properly?	YES / NO	
(6) Are Safety and Hot Gun, AND MISFIRE procedures posted/available at the mount?	YES / NO	
(7) Is the gun log being properly maintained? (NAVSEA SW360-AF-MMO-010)	YES / NO	TOTAL ROUNDS FIRED: _____
(8) Does the ship have proper logistics AEL/APL support: <ul style="list-style-type: none"> <li>- 00602A286, MK38 MOD 1 25MM GUN</li> <li>- 00602A287, MK88 MOD 1 GUN MOUNT</li> <li>- 00602A288, MK218 MOD 1 POWER CONTROL UNIT</li> <li>- 006400393, 25MM CANNON</li> </ul>	YES / NO	